

# TrkB(Phospho-Tyr515) Antibody

Catalog No: #11327

Package Size: #11327-1 50ul #11327-2 100ul

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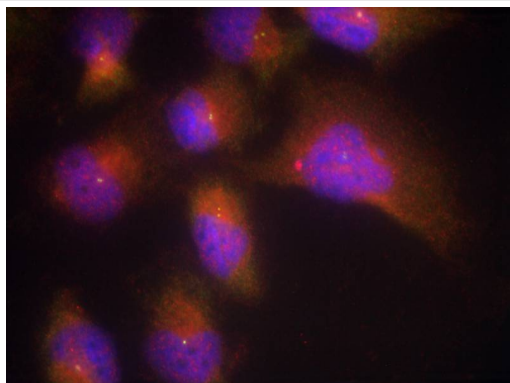
## Description

Product Name	TrkB(Phospho-Tyr515) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB;IHC;IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of TrkB only when phosphorylated at tyrosine 515.
Immunogen Type	Peptide
Immunogen Description	The antiserum was produced against synthesized peptide derived from human Trk B around the phosphorylation site of Tyr515.
Conjugates	Unconjugated
Target Name	TrkB
Modification	Phospho
Other Names	BDNF/NT-3 growth factors receptor precursor; GP145-TrkB; GP145-TrkB/GP95-TrkB; NTRK2; Trk-B
Accession No.	Swiss-Prot: Q16620NCBI Protein: NP_001007098.1
SDS-PAGE MW	145kDa or 92kDa
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

WB 1:500-1:2000; IHC 1:100-1:300; IF 1:50-1:200

## Images



Immunofluorescence staining of methanol-fixed HeLa cells using TrkB(Phospho-Tyr515) Antibody #11327.

## Background

Receptor for brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4/5 but not nerve growth factor (NGF). Involved in the development and/or maintenance of the nervous system. This is a tyrosine-protein kinase receptor. Known substrates for the TRK receptors are SHC1, PI-3 kinase, and PLC-gamma-1.

Woronowicz A, et al. *Glycobiology*. 2007 Jan;17(1):10-24.

Mojsilovic-Petrovic J, et al. *J Neurosci*. 2006 Sep 6;26(36):9250-63.

Lewis MA, et al. *Mol Pharmacol*. 2006 Apr;69(4):1396-404.

Cai D, et al. *Physiol Genomics*. 2006 Feb 14;24(3):191-7.

## Published Papers

YeeWen Candace Wu, Rachel A. Hill, Maren Klug et al., Sex-specific and region-specific changes in BDNF $\eta$ — CTrkB signalling in the hippocampus of 5-HT1A receptor and BDNF single and double mutant mice., *Brain Research.*, 1452:10-17(2012)

[PMID:22464183](#)

et al., The novel squamosamide derivative FLZ enhances BDNF/TrkB/CREB signaling and inhibits neuronal apoptosis in APP/PS1 mice. In *Acta Pharmacol Sin* on 2010 Mar by Li N, Liu GT et al.. PMID:20154710, , (2010)

[PMID:20154710](#)

et al., Lactobacillus pentosus LPQ1 attenuates depressive-like behavior in BALB/C mice induced by chronic unpredictable mild stress (CUMS), , (2024)

[PMID:](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.